

ABSTRACT

A method for synchronizing divergent samples in a programmable graphics processing unit is described. In one embodiment, the method includes the steps of determining that a divergence has occurred and detecting that a first sample of a group of samples has encountered a first synch token. The method also includes the steps of determining whether each of the other samples of the group has encountered a synch token and determining whether the synch token encountered by each of the other samples of the group is the first synch token.